



Anti-Cation-dependent mannose-6-phosphate receptor precursor (M6PR), Chicken Polyclonal Antibody

Catalog No. PY-10246

Quantity: 100 μ g

Applications: Western blot, IHC

Antigen species: Human

Reactivity: Human

Host species: Chicken

Form: Antigen affinity purified antibody

Target description

Mannose-6-phosphate receptor is a multifunctional single transmembrane glycoprotein which, along with the cation-dependent M6PR, mediates the trafficking of M6P-containing lysosomal enzymes from the trans-Golgi network (TGN) to lysosomes. Cell surface M6PR also function in the degradation of the non-glycosylated IGF-II polypeptide hormone, as well as in the capture and activation/degradation of extracellular M6P-bearing ligands.

Antigen

This polyclonal antibody was raised by immunizing chicken with M6PR (1-60 amino acids) fusion protein.

Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1: 3,000 (ECL method), for tissue or cell staining is 1: 200.

Related Products

1. Anti-Amyloid β (1-40), rabbit pAb (GB-10536)
2. Anti-Amyloid β (37-42), rabbit pAb (GB-10370)
3. Anti-human fibrinogen , rabbit pAb (PG-10006)
4. Anti-Taxol , rabbit pAb (PG-10007)
5. Anti-Troponin I (TNNI3), chicken pAb (PY-10206)

kDa

24—

17—

 ← M6PR fusion protein

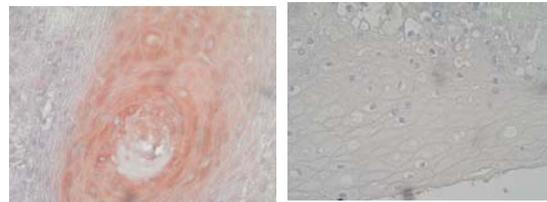
E. coli derived protein as test antigen.

Western blot protocol

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 3,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1: 10,000 for ECL (with 1% milk PBS-T) at R.T. for 1 h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

AEC method Tissue staining:

(A) (B)



(A) Oral cancer epithelium, M6PR (1: 150)
(B) Oral epithelium, negative control

Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1 \times PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Kim, J.J., Dahms, N.M. The cation-dependent mannose 6-phosphate receptor. *Results Probl Cell Differ.* 2001; 33:39-56.
2. Hawkes, C., Kar, S. The insulin-like growth factor-II/mannose-6-phosphate receptor: structure, distribution and function in the central nervous system. *Brain Res Brain Res Rev.* 2004 Mar; 44(2-3):117-40.

FOR RESEARCH USE ONLY AND NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE